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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/037,581	01/04/2002	Ru-Shi Liu	U 013820-1	6510
75	90 05/01/2003		•	
Ladas & Parry			EXAMINER	
26 West 61st St New York, NY			KRISHNAN, SUMATI	
			ART UNIT	PAPER NUMBER
			2875	
		DATE MAILED: 05/01/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

i		Application No.	Applicant(s)				
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Office Action Summary		10/037,581	LIU ET AL.				
	onice Action Sammary	Examiner	Art Unit				
	The MAILING DATE of this communication a	Sumati Krishnan	th the correspondence address				
Period fo		appears on the cover sheet wi	ur ure correspondence addres				
THE I - Externanter - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION is sons of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by state eply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the statutory minimum of thirt od will apply and will expire SIX (6) MON tute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this commu-	nication.			
1)	Responsive to communication(s) filed on _						
2a)□		This action is non-final.					
3)	Since this application is in condition for allo		ters, prosecution as to the mo	erits is			
,	closed in accordance with the practice und						
· <u> </u>	on of Claims						
•	Claim(s) 1-5 is/are pending in the application						
	4a) Of the above claim(s) is/are withd	rawn from consideration.					
· <u> </u>	Claim(s) is/are allowed.						
	Claim(s) <u>1-5</u> is/are rejected.						
	Claim(s) is/are objected to.						
•	Claim(s) are subject to restriction and on Papers	d/or election requirement.					
	The specification is objected to by the Exami	ner					
•	The drawing(s) filed on is/are: a) ☐ ac		he Examiner				
. 9, 🗀	Applicant may not request that any objection to	•					
11)[]	The proposed drawing correction filed on	- · · ·					
,	If approved, corrected drawings are required in		,,				
12)[]	The oath or declaration is objected to by the	Examiner.					
Priority u	ınder 35 U.S.C. §§ 119 and 120						
13)⊠	Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C. {	§ 119(a)-(d) or (f).				
a)[⊠ All b) Some * c) None of:						
	1. Certified copies of the priority docume	ents have been received.					
	2. Certified copies of the priority documents have been received in Application No						
* 0	3. Copies of the certified copies of the praphication from the International	Bureau (PCT Rule 17.2(a)).		је			
	see the attached detailed Office action for a li	·		aliontian)			
•	cknowledgment is made of a claim for dome	•		oncation).			
15) 🗌 <i>A</i>) ☐ The translation of the foreign language p Acknowledgment is made of a claim for dome 	• •					
Attachmen			O				
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice of I	Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-15:				
	1						

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsubara et al (6509651) in view of Pinnow et al (US 3699478).

Matsubara discloses a pink light emitting device with high brightness comprising a light emitting diode as a luminescent element and a fluorescent body comprising yttrium aluminum garnet fluorescent powders wherein said light emitting element emits a purple to blue light with a wavelength ranging from 400 nm-450 nm. Matsubara does not explicitly disclose the formula claimed in claim 1. However, Pinnow discloses a white light emitting device comprising a phosphor composition having the formula of claims 1-3. See Pinnow column 4 line 10. Pinnow discloses that this formula together with the specified ranges, represents the minimum concentration resulting in a readily discernible reemission image, and the maximum concentration is occasioned by the fact that further increase results in little improvement. Pinnow discloses that the disclosed composition is based largely on economic considerations. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have used Pinnow's phosphor composition in the invention of Matsubara in order to maximize efficiency and minimize cost.

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Regarding claim 4, Matsubara discloses the fluorescne powder excited by a purple to blue light to emit an orange yellow to orange light with a wavelength ranging from 575-585 nm, see figure 9.

Regarding claim 5, the Applicant is claiming the product of claim 1 including a process of making the fluorescent powder. Claim 5 is a product-by-process claim. In spite of the fact that a product-by-process claim may recite only process limitations, it is the product and not the recited process that is covered by the claim. Patentability of a claim to a product does not rest merely on the difference in the method by which the product is made. Rather, it is the product itself which must be new and not obvious. As such, no patentable weight has been given to the process recited in claim 5 (see MPEP 2113).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sumati Krishnan whose telephone number is 703-305-7906. The examiner can normally be reached on 8:00 am - 4:30 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on 703-305-4939. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Sandra U'Snea
Supervisory Patent Examiner

Technology Center 2800

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SK April 25, 2003

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